

LEADING BY EXAMPLE

We're not just stewards of the environment – We're global leaders of the movement

lowa General Assembly

Energy Efficiency Study Committee

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Whirlpool Amana Division

Whirlpool Corporation Overview

%Largest global manufacturer and marketer of major home appliances

第Annual sales of more than \$18 billion

第73,000 employees

#Over **70** manufacturing and technology research centers around the globe

第Additional information at www.whirlpoolcorp.com



Our Commitment to Energy and Water Efficiency

Whirlpool is the only appliance company that brings this "across the board" focus to energy & water.

We continually strive for improvements while always keeping in mind that **exceeding the expectations** of the consumer is our goal.

It is not just another criterion to us, it is **a way of life**.

Efficiency just makes good business sense.



















Whirlpool is Energy and Water Efficient Across the Value Chain

Manufacturing

- No volatile organic compound (VOC) paints
- No emissions of solvents
- Lessened power plant emissions
- Low energy lighting
- High-efficiency equipment

Product Distribution

- SmartWay* Transportation Partner
 - Carriers use more efficient trucks
 - Less truck idle time
- Electric Lift Trucks
- Fewer net emissions



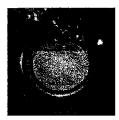
Design

- Usability
- Energy reductions in every product
- Water reductions (clothes washers, dishwashers)



End of Life Management

- 85 90% of materials are recycled (steel, other metals, some plastics)
- Disposal of ozone depleting refrigerants
- Styrofoam Reuse
 - Was previously sent to landfills
 - Now ground up (80:1 size reduction)
 - Ground material is reused in plastic furniture, food containers, playground equipment and many other products consumers use daily







Reducing Greenhouse Emissions

器In 2003, Whirlpool became the first appliance manufacturer to announce a global greenhouse gas reduction target.

#3% reduction in overall global emissions from 1998 levels by 2008

Target includes emissions from manufacturing, transportation and lifetime emissions of Whirlpool-manufactured products

#If our goal is met, the carbon that will NOT be emitted into the air is equivalent to a train of coal cars 13,000 miles long.





Why Energy Efficiency?

第 CHEAPER

■ Each \$1 invested in Energy Star program = \$75 in energy cost savings and
\$15 of investment in new efficiency technologies

QUICKER

In 2001, California cut peak electricity use by 10% in less than a year

CLEANER

"Negawatt" produces NO ENVIRONMENTAL FOOTPRINT

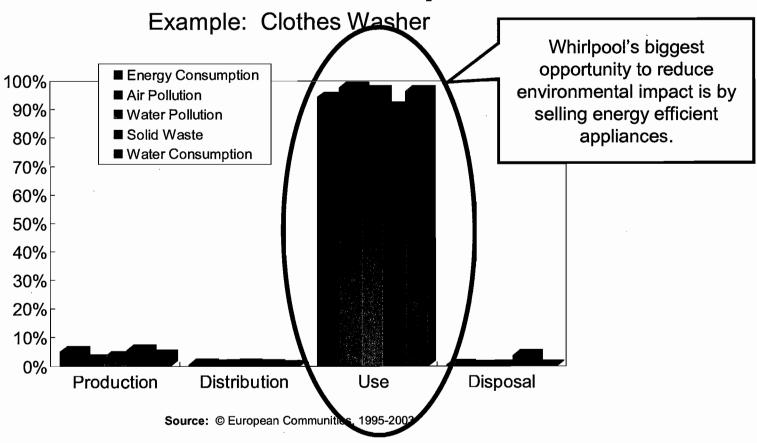
★ EHANCES SECURITY

Energy efficiency is a "homegrown" resource!



Importance of Efficiency in Life Cycle

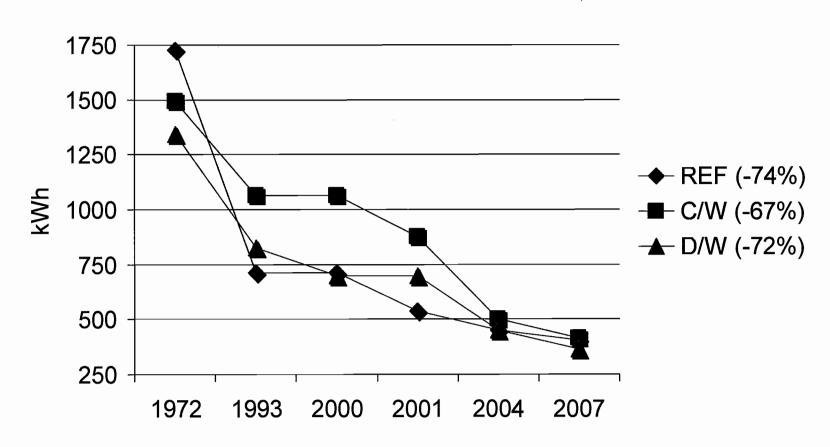
Cradle-to-grave Assessment of Environmental Impact



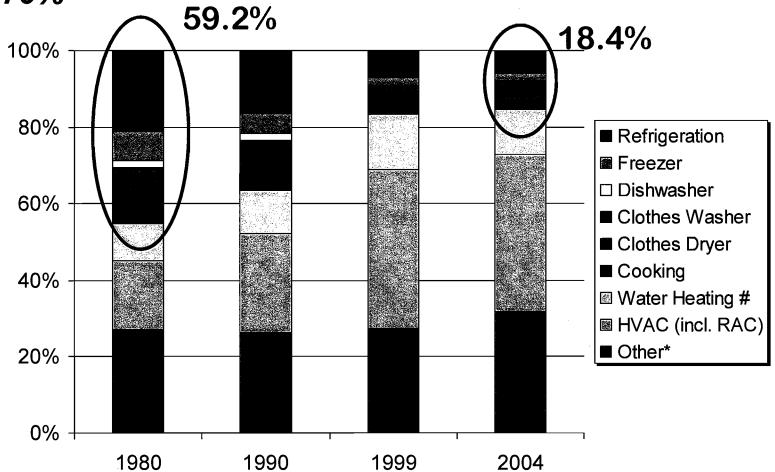


Home Appliance Energy Efficiency Has Improved by 70% since 1972

Annual Average KilowattHour Usage



Relative Appliance Energy Consumption Has Dropped By 70%



Source: Energy Information Administration/Annual Energy *Outlook 1997-2004* Data consider saturation

* Other: Includes electronic items not listed, such as small cooking appliances, electric tools, home electronics # 17% of Water Heating is for washers & dishwashers 9



Environmental Management

- # Since 1970, Whirlpool has maintained a formal global environmental management process designed to integrate environmental considerations into product design, employee training, monitoring operations, and manufacturing processes.
- # All Whirlpool plants must comply with the company's rigorous compliant audit process that assesses environmental risks and health and safety criteria.
- # Many of our global facilities are ISO14001 certified, and where they are not, we practice the standard.
- # These standards are applied globally, even in countries with existing laws that would allow us to perform at levels below our global standards.





Whirlpool Amana Division is Leading the Way

第2005 - STEAM BOILERS

Replaced 2 large capacity boilers with 4 HE units and improved distribution system 46.7k mmBTU annual reduction in natural gas usage

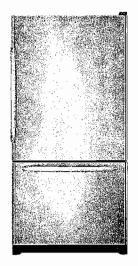
第2007 - COMPRESSED AIR

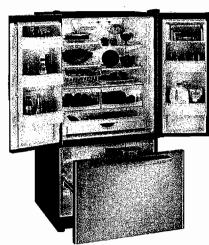
Centralized controls and compressor tie-in Estimated annual reduction of 3,350,000 KWH

第2008 - FACILITY LIGHTING

Corporate Energy Efficiency Initiative Project in Scoping









Amana Division: A leader in energy efficiency

- - That's enough energy to power all lowa homes for nearly 17 days.
 - Eliminated carbon emissions equivalent to those generated by 61,349 passenger cars in a year.
- # 92 percent of units produced in Amana in 2006 were ENERGY STAR qualified.
- # Energy Star qualified refrigerators use 15% less energy than the federal standard. As of April 2008, they will use 20% less energy.

Assumptions:

Amana ENERGY STAR units sold in 2006 replaced refrigerators with the average U.S. unit energy consumption for refrigeration in 2001 of 1,239 kWh (Source: US Department of Energy, Energy Information Office).

Average lowa home uses 11,256 kWh/year (Source: US Department of Energy, Energy Information Office)

Electricity Carbon Factors (Source: EPA 2003)



ENERGY STAR®

ENERGY STAR is a joint program
of the U.S. Environmental Protection
Agency and the U.S. Department of
Energy helping us all save money
and protect the environment through
energy efficient products and practices.



- 器 ENERGY STAR appliances meet strict energy efficiency guidelines.
- ★ Many households could save 20 to 30 percent on energy bills by using ENERGY STAR products and energy efficient solutions.
- # Whirlpool is the only two-time appliance manufacturer winner of the ENERGY STAR Partner of the Year Sustained Excellence Award



Won 2007 Sustained Excellence Award

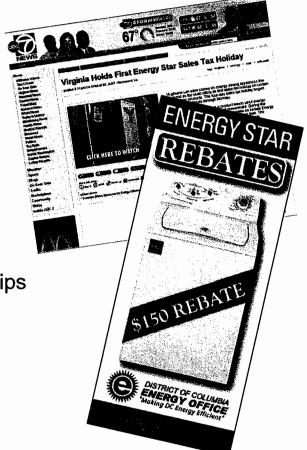
Given to organizations that have exhibited outstanding environmental leadership year after year, while sustaining product and marketing excellence. Whirlpool was the inaugural recipient.



What will make a difference?



- - Maryland
 - ENERGY STAR sales tax exemption 2000-2004
 - Oregon
 - Income tax credit of up to \$180 per super-efficient appliance
 - District of Columbia Government
 - * Rebate of up to \$150 for ENERGY STAR qualified appliances
 - Georgia, Florida, Virginia
 - Sales tax holidays for ENERGY STAR appliances
- Whirlpool has Energy Star coop marketing relationships in New York and Wisconsin, and we are developing relationships in Oregon and Ohio.





Iowa Energy Efficiency Legislation

₩ Whirlpool supports legislation that would provide a long-term sales tax exemption for clothes washers, refrigerators and dishwashers.

- Provides meaningful savings in not only energy, but also water. Savings are significant over the lifetime of the products (10-18 years)
- Provides consumer with instant savings with no paperwork (i.e. more effective than mail-in rebates or income tax credits)
- Long term exemption is preferable to short term sales tax holiday
 - Encourages quick market transformation and energy efficiency awareness.
 - Timing of appliance purchases often not amenable to short-term incentives (e.g. appliance break-down, home renovation)

Senate File 122

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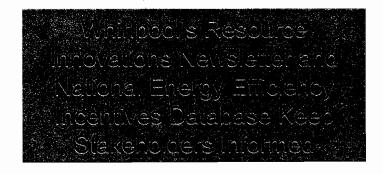
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Section 1. Section 423.3, code 2007, is amended by adding
     NEW SUBSECTION. 92. The sales price from the sale of a
4 clothes Washing Machine, refrigerator, or dishwasher which
2 the following new subsection:
5 meets or exceeds the energy efficiency rating for the
 6 applicable appliance under the energy star program establish
 o applicable appliance unuer the energy star program estable to by the United States environmental protection agency in
   cooperation with the United States department of energy.
       Sec. 2. INFORMATION TO PUBLIC. The department of reveni
 10 in consultation with manufacturers and retailers,
 11 interest groups, shall develop public information programs
 12 materials to identify and encourage the sales of products
 13 eligible for the tax exemption provided under section 1 of
                 EFFECTIVE DATE. This Act takes effect January
         This bill exempts from sales and use taxes the purchas
1 14 this Act.
  1 19 clothes washers, refrigerators, and dishwashers that meel
    20 energy efficiency standards set under the federal energy
 1 15
 1 16 2008.
    21 program. This program Was established through the coope
    22 of the United States department of energy and the United
   1 23 States environmental protection agency.
           The bill takes effect January 1, 2008.
    1 25 LSB 2314SS 82
    1 26 mg:rj/je/5
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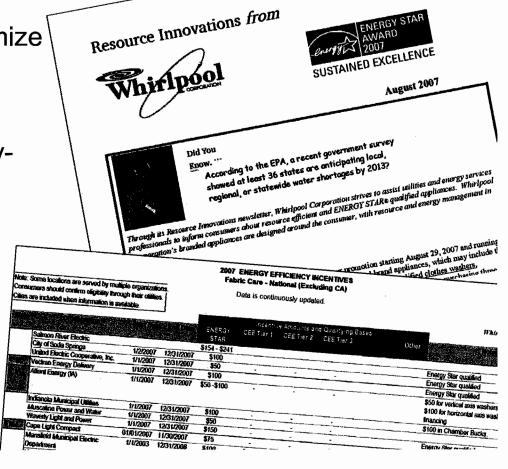


Partnerships are key to success

#Whirlpool works closely with government officials, environmental awareness organizations, utilities and retailers to promote energy efficiency.

#Working together, we can maximize resource efficiency by educating consumers and providing incentives for purchasing energy-and water-efficient appliances.







Conclusion

光Promoting energy and water efficiency is the quickest, cheapest, cleanest and most effective way of solving our nation's energy and water shortages.

#Whirlpool appreciates the work of the Energy Efficiency Study Committee and looks forward to an ongoing dialogue about how to promote energy and water efficiency in the state of lowa.





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ENERGY STAR/Resource Innovations Newsletter/Utility Incentives

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